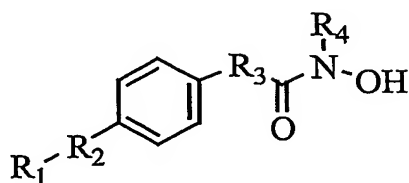


CLAIMS

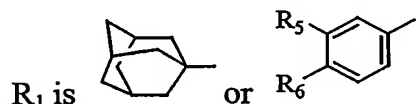
1. A hydroxamic acid derivative represented by the following formula (I) :

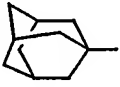
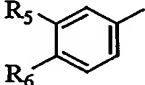
[Formula 1]



(I)

wherein,



R_1 is  or , herein, R_5 and R_6 each independently represents a hydrogen atom, an alkyl group having from 1 to 10 carbon atoms or a cyclic alkyl group having from 3 to 6 carbon atoms;

R_2 is CONH, NHCO, CONR₇ or NR₇CO, herein, R_7 represents an alkyl group having from 1 to 10 carbon atoms;

R_3 is $-(CH)_n-$, herein, $n = 0$ or 1 ; and

R_4 is a hydrogen atom or an alkyl group having from 1 to 10 carbon atoms.

2. The hydroxamic acid derivative according to Claim 1, which is selected from the group consisting of

N-[4-(N-hydroxycarbamoyl)phenyl] benzamide,

N-[4-(N-hydroxycarbamoyl)phenyl][4-methylphenyl] carboxamide,

N-[4-(N-hydroxycarbamoyl)phenyl][3-methylphenyl] carboxamide,

N-[4-(N-hydroxycarbamoyl)phenyl][4-ethylphenyl] carboxamide,

N-[4-(N-hydroxycarbamoyl)phenyl][4-propylphenyl] carboxamide,

N-[4-(N-hydroxycarbamoyl)phenyl][4-isopropylphenyl] carboxamide,

- N-[4-(N-hydroxycarbamoyl)phenyl][4-butylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl][4-*tert*-butylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl][3,4-dimethylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl] adamantyl carboxyamide,
5 adamantyl-N-[4-(N-hydroxy-N-methylcarbamoyl)phenyl] carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-benzamide,
N-[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-[4-methylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-[3-methylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-[4-ethylphenyl] carboxyamide,
10 N-[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-[4-propylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-[4-isopropylphenyl]
carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-[4-butylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-[4-*tert*-butylphenyl]
15 carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-[3,4-dimethylphenyl]
carboxyamide,
N-[4-(N-hydroxycarbamoyl)phenyl] adamantyl-N-methylcarboxyamide,
adamantyl-N-[4-(N-hydroxy-N-methylcarbamoyl)phenyl]-N-methylcarboxyamid
20 e,
N-[4-(N-hydroxycarbamoylmethyl)phenyl] benzamide,
N-[4-(N-hydroxycarbamoylmethyl)phenyl][4-methylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoylmethyl)phenyl][3-methylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoylmethyl)phenyl][4-ethylphenyl] carboxyamide,
25 N-[4-(N-hydroxycarbamoylmethyl)phenyl][4-propylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoylmethyl)phenyl][4-isopropylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoylmethyl)phenyl][4-butylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoylmethyl)phenyl][4-*tert*-butylphenyl] carboxyamide,

- N-[4-(N-hydroxycarbamoylmethyl)phenyl][3,4-dimethylphenyl] carboxyamide,
N-[4-(N-hydroxycarbamoylmethyl)phenyl] adamantyl carboxyamide,
2-[4-(adamantylcarbonylamino)phenyl]-N-hydroxy-N-methylacetamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-benzamide,
- 5 [4-(N-hydroxycarbamoyl)phenyl]-N-[4-methylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-[3-methylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-[4-ethylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-[4-propylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-[4-isopropylphenyl] carboxyamide,
- 10 [4-(N-hydroxycarbamoyl)phenyl]-N-[4-butylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-[4-*tert*-butylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-[3,4-dimethylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-adamantyl carboxyamide,
N-adamantyl [4-(N-hydroxy-N-methylcarbamoyl)phenyl] carboxyamide,
- 15 [4-(N-hydroxycarbamoyl)phenyl]-N-methyl-N-benzamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-N-[4-methylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-N-[3-methylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-N-[4-ethylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-N-[4-propylphenyl] carboxyamide,
- 20 [4-(N-hydroxycarbamoyl)phenyl]-N-methyl-N-[4-isopropylphenyl]
carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-N-[4-butylphenyl] carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-methyl-N-[4-*tert*-butylphenyl]
carboxyamide,
- 25 [4-(N-hydroxycarbamoyl)phenyl]-N-methyl-N-[3,4-dimethylphenyl]
carboxyamide,
[4-(N-hydroxycarbamoyl)phenyl]-N-adamantyl-N-methylcarboxyamide, and
N-adamantyl

[4-(N-hydroxy-N-methylcarbamoyl)phenyl]-N-methylcarboxamide.

3. A method for preparing the hydroxamic acid derivative according to Claim 1, which comprises the steps of:

- 5 (a) Reacting benzoic acid or adamantanecarboxylic acid with methyl 4-aminobenzoate or 4-aminophenylacetic acid methylester, to produce a benzamide compound;
- (b) Substituting an alkyl group for amide bond of benzamide formed in said step;
- (c) Hydrolyzing methylester of benzamide or alkyl-substituted benzamide
10 compounds formed in said steps, to produce an acid; and
- (d) Reacting said acid with hydroxylamine hydrochloride or N-methyl hydroxylamine hydrochloride, to produce a hydroxamic acid derivative.

4. A method for preparing the hydroxamic acid derivative according to Claim 1,
15 which comprises the steps of :

- (a) Reacting aniline or adamantamine with monomethylterephthalate, to produce a benzamide compound;
- (b) Substituting an alkyl group for amide bond of benzamide formed in said step;
- (c) Hydrolyzing methylester of benzamide or alkyl-substituted benzamide
20 compounds formed in said steps, to produce an acid; and
- (d) Reacting said acid with hydroxylamine hydrochloride or N-methyl hydroxylamine hydrochloride, to produce a hydroxamic acid derivative

5. A skin-care external composition for preventing skin aging, containing the
25 hydroxamic acid derivative according to Claim 1 as an active ingredient.

6. A collagenase expression-inhibiting agent containing the hydroxamic acid derivative according to Claim 1 as an active ingredient.

7. An elastase expression-inhibiting agent containing the hydroxamic acid derivative according to Claim 1 as an active ingredient.